

## ABSTRACT OF THE DISCLOSURE

An imaging system can include an antenna apparatus configured to transmit toward and receive from a subject in a subject position, millimeter-wave  
5 electromagnetic radiation. A subject may include a person and any object or objects with the person. A controller can include a transceiver configured to operate the antenna apparatus and produce an output representative of the received radiation, and a processor adapted to produce from the transceiver output, image data representative of an image of the subject. At least a first portion of an image signal representative of  
10 radiation received by an antenna apparatus may be used to produce first image data representative of a first image of at least a portion of the subject. Second image data representative of a second image having resolution that is different than that of the first image may be produced from at least a second portion of the image signal.